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Docket No.: ALEX-P03-060

Application No. 10/736,188 Amendment dated June 2, 2008 Reply to Office Action of April 3, 2008

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph at section [0101] of the published application with the paragraph set forth below:

The libraries were enriched for CLL cell surface-specific antibodies by positive-negative selection with a magnetically-activated cell sorter (MACS) as described by Siegel et al. (1997, J. Immunol. Methods 206:73-85). Briefly, phagemid particles from the scFv antibody library were preincubated in MPBS (2% nonfat dry milk, 0.02% sodium azide in PBS, pH 7.4) for 1 hour at 25° C. to block nonspecific binding sites. Approximately 10⁷ primary CLL cells were labeled with mouse anti-CD5 IgG and mouse anti-CD19 IgG conjugated to paramagnetic microbeads (Miltenyi Biotec, Sunnyvale, Calif.). Unbound microbeads were removed by washing. The labeled CLL cells ("target cells") were mixed with an excess of "antigen-negative absorber cells", pelleted, and resuspended in 50 µl (10¹⁰-10¹¹ cfu) of phage particles. The absorber cells serve to soak up phage that stick non-specifically to cell surfaces as well as phage specific for "common" antigens present on both the target and absorber cells. The absorber cells used were either TF-1 cells (a human erythroleukemia cell line) or normal human B cells isolated from peripheral blood by immunomagnetic negative selection (StemSepTM STEMSEPTM system, StemCell Technologies, Vancouver, Canada). The ratio of absorber cells to target cells was approximately 10-fold by volume. After a 30 minute incubation at 25° C., the cell/phage mixture was transferred to a MiniMACSTM MINIMACSTM MS[†] separation column. The column was washed twice with 0.5 ml of MPBS, and once with 0.5 ml of PBS to remove the unbound phage and absorber cells. The target cells were eluted from the column in 1 ml of PBS and pelleted in a microcentrifuge at maximum speed for 15 seconds. The captured phage particles were eluted by resuspending the target cells in 200 µl of acid elution buffer (0.1 N HCl, pH adjusted to 2.2 with glycine, plus 1 µg/ml BSA). After a 10 minute incubation at 25° C., the buffer was neutralized with 12 µL of 2M Tris base, pH10.5, and the cluted phage were amplified in E. coli for the next round of panning. For each round of panning, the input and output phage titers were determined. The input titer is the number of reamplified phage particles added to the target cell/absorber cell mixture and the output titer is the number of captured phage eluted from the target cells. An enrichment factor (E) is calculated using

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the formula $E=(R_n \text{ output/}R_n \text{ input})/(R_1 \text{ output/}R_1 \text{ input})$. In most cases, an enrichment factor of 10^2 - 10^3 fold should be attained by the third or fourth round.

Please replace the paragraph at section [0108] of the published application with the paragraph set forth below.

To screen individual scFv clones following panning, TOP10F' cells were infected with phage pools as described above, spread onto LB plates containing carbenicillin and tetracycline, and incubated overnight at 37° C. Individual colonies were inoculated into deep 96-well plates containing 0.6-1.0 ml of SB-carbenicillin medium per well. The cultures were grown for 6-8 hours in a HiGro® HIGRO® shaking incubator (GeneMachines, San Carlos, Calif.) at 520 rpm and 37° C. At this point, a 90 µl aliquot from each well was transferred to a deep 96-well plate containing 10 µL of DMSO. This replica plate was stored at -80° C. IPTG was added to the original plate to a final concentration of 1 mM and shaking was continued for 3 hours. The plates were centrifuged at 3000xg for 15 minutes. The supernatants containing soluble scFv antibodies were transferred to another deep 96-well plate and stored at -20° C.

Please replace the paragraph at section [0126] of the published application with the paragraph set forth below:

293-EBNA cells (Invitrogen) were seeded at 2.5x10⁶ per 100 mm dish. 24 hours later the cells were transiently transfected using PolyFeet® POLYFECT®, an activated-dendrimer transfection reagent (QIAGEN), according to the manufacturer's instructions. Cells were cotransfected with 7.2 μg of OX-2/CD200 cDNA in vector pCEP4 (Invitrogen) and 0.8 μg of pAdVAntageTM pADVANTAGETM vector (Promega). As a negative control, cells were cotransfected with empty pCEP4 vector plus pAdVAntageTM pADVANTAGETM. 48 hours after transfection, approximately 90% of the cells expressed OX-2/CD200 on their surface as determined by flow cytometry with the scFv-9 antibody.